

**Abstract**

An apparatus for providing ultrasonic energy for deposition in body tissue including an array of elements having at least two different sizes and at least one element being aperiodically spaced with respect to other elements in the array. Excitation of the elements produces a beam of ultrasonic energy having reduced grating lobes. Reduced grating lobe magnitude permits improved ultrasonic beam focusing and/or the use of larger element sizes.

5 10

ds1-298977.3

2025 RELEASE UNDER E.O. 14176